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FORM**

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	09/914,928
		Filing Date	09/06/2001
		First Named Inventor	Loick Verger
		Art Unit	2884
		Examiner Name	Sung, Christine
Total Number of Pages in This Submission	21	Attorney Docket Number	034299-346

ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input checked="" type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Postcard
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm	Thelen Reid Brown Raysman & Steiner LLP		
Signature			
Printed Name	Khaled Shami		
Date	10/16/2007	Reg. No.	38,745

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Typed or printed name	Julie Arango	Date	10/16/2007

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Effective on 12/08/2004.
Fee pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL for FY 2008

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 510.00

Complete if Known

Application Number	09/914,928
Filing Date	09/06/2001
First Named Inventor	Loick Verger
Examiner Name	Sung, Christine
Art Unit	2884
Attorney Docket No.	034299-346

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify) : _____
☒ Deposit Account Deposit Account Number: 50-1698 Deposit Account Name: Thelen Reid Brown Raysman & Steiner LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	
Utility	310	155	510	255	210	105	_____
Design	210	105	100	50	130	65	_____
Plant	210	105	310	155	160	80	_____
Reissue	310	155	510	255	620	310	_____
Provisional	210	105	0	0	0	0	_____

2. EXCESS CLAIM FEES

Fee Description		Small Entity	
		Fee (\$)	Fee (\$)
Each claim over 20 (including Reissues)		50	25
Each independent claim over 3 (including Reissues)		210	105
Multiple dependent claims		370	185
Total Claims	Extra Claims	Fee(\$)	Fee Paid (\$)
_____ -20 or HP= _____	x _____	= _____	_____
HP = highest number of total claims paid for, if greater than 20.			
Indep. Claims	Extra Claims	Fee(\$)	Fee Paid (\$)
_____ - 3 or HP= _____	x _____	= _____	_____
HP = highest number of independent claims paid for, if greater than 3.			

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$260 (\$130 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____ - 100 = _____	/ 50 = _____	(round up to a whole number) x _____	= _____	_____

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Filing a brief in support of an appeal

Fees Paid (\$)

510.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent)	38,745	Telephone	408-292-5800
Name (Print/Type)	Khaled Shami	Date	10/16/2007		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT
Serial No. 09/914,928
Atty. Docket No.: 034299-346

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Loick Verger et al. CONFIRMATION NO.: 5963
SERIAL NO.: 09/914,928
FILING DATE: 09/06/2001
TITLE: X-RAY IMAGING DEVICE AND METHOD FOR MAKING SAME
EXAMINER: Sung, Christine
ART UNIT: 2884

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Mail Stop Appeal Brief - Patents, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450, on the date printed below:

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Name: Julie Arango
Julie Arango

Mail Stop Appeal Brief - Patents
Commissioner for Patents
P.O. Box 1450
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APPEAL BRIEF

Dear Sir:

This paper is in support of a Notice to Appeal filed August 20, 2007, of the Office Action dated April 17, 2007, to the Board of Patent Appeals and Interferences.

10/19/2007 EAYALEW1 00000091 501698 09914928

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REAL PARTY IN INTEREST

Commissariat a L'Energie Atomique.

RELATED APPEALS AND INTERFERENCES

None.

STATUS OF CLAIMS

Claim 11 has been canceled.

Claims 1-10 and 12-20 have been finally rejected and are on appeal.

STATUS OF AMENDMENTS

An amendment after final was filed on August 16, 2007, and has been entered.

SUMMARY OF CLAIMED SUBJECT MATTER

The invention relates to X-ray imaging devices and the fabrication of same. Claim 1 is directed to a X-radiation imagery device comprising at least one detection matrix. The detection matrix includes an electric charges reading panel (10; FIG. 1; p. 7, l. 21) having an area equal to or larger than about 10 cm x 10 cm (p.5, l. 27; p. 12, l. 21; l. 27), the electric charges reading panel including a monocrystalline silicon substrate (10) integrating a plurality of electronic devices, and a detection layer made of a continuous layer of semiconducting material (#13, FIG. 1, p. 8, ll. 3-4; #24, FIG. 2C, p. 13, ll. 1-2) deposited in vapour phase on the electric charges reading panel (p. 8, ll. 1-5), the detection layer converting incident X photons into electric charges, each electronic device and a portion of the detection layer formed thereon forming a respective pixel of the detection matrix.

Claim 2 is directed to a process for making an X-radiation imagery device comprising at least one detection matrix. The detection matrix includes (a) an electric charges reading panel (10; FIG. 1; p. 7, l. 21) having an area equal to or larger than about 10 cm x 10 cm (p.5, l. 27; p. 12, l. 21; l. 27), the electric charges reading panel including a monocrystalline silicon substrate (10) integrating a plurality of electronic devices, and (b) a detection layer made of a semiconducting material (#13, FIG. 1, p. 8, ll. 3-4; #24, FIG. 2C, p. 13, ll. 1-2) converting incident X photons into electric charges. The process includes forming the electronic devices on the monocrystalline silicon substrate to produce the electric charges reading panel, and vapour-phase depositing (p. 8, ll. 1-5) the semiconducting material on the electric charges reading panel so as to form the detection layer made of a continuous layer of the semiconducting material, thereby forming a matrix of detection pixels, each detection pixel including a corresponding electronic device and a portion of the detection layer formed thereon.

Claim 14 is directed to X-radiation imagery device that includes at least one detection matrix. The detection matrix includes an electric charges reading panel (10; FIG. 1; p. 7, l. 21) having an area equal to or larger than about 10 cm x 10 cm (p.5, l. 27; p. 12, l. 21; l. 27), the electric charges reading panel including a monocrystalline silicon substrate (10) integrating a plurality of electronic devices, each electronic device including an amplifier, and a detection

layer made of a continuous layer of a semiconducting material (#13, FIG. 1, p. 8, ll. 3-4; #24, FIG. 2C, p. 13, ll. 1-2) deposited in vapour phase on the electric charges reading panel (p. 8, ll. 1-5), the detection layer converting incident X photons into electric charges, each electronic device and a portion of the detection layer formed thereon forming a respective pixel of the detection matrix.

Claim 16 is directed to a method for making an X-radiation imagery device comprising at least one detection matrix. The detection matrix includes an electric charges reading panel (10; FIG. 1; p. 7, l. 21) having an area equal to or larger than about 10 cm x 10 cm (p.5, l. 27; p. 12, l. 21; l. 27), the electric charges reading panel including (a) a monocrystalline silicon substrate (10) integrating a plurality of electronic devices, and (b) a detection layer made of a semiconducting material (#13, FIG. 1, p. 8, ll. 3-4; #24, FIG. 2C, p. 13, ll. 1-2) converting incident X photons into electric charges. The process includes forming the electronic devices on the monocrystalline silicon substrate to produce the electric charges reading panel, each of the electronic devices including an amplifier, and vapour-phase depositing (p. 8, ll. 1-5) the semiconducting material on the electric charges reading panel so as to form a continuous detection layer made of the semiconducting material, thereby forming a matrix of detection pixels, each detection pixel including a corresponding electronic device and a portion of the detection layer formed thereon.

GROUND OF REJECTION TO BE REVIEWED ON APPEAL

Whether claims 1-10 and 12-20 are anticipated under 35 U.S.C. 102(e) by U.S. Pat. No. 5,892,227 (Schieber; hereinafter, "Schieber").

Whether claims 3, 12, 18 and 20 are unpatentable under 35 U.S.C. 103(a) over Schieber.

ARGUMENT

Rejection of Claims 1-10 and 12-20 Under 35 U.S.C. 102(e) Based on Scheiber

Claim 1

Claim 1 recites, *inter alia*, an electric charges reading panel that includes (1) a monocrystalline silicon substrate integrating a plurality of electronic devices, and (2) a detection layer made of a continuous layer of semiconducting material deposited in vapour phase on the electric charges reading panel. These features are not disclosed in Schieber. As seen from FIG. 4 of Scheiber, the HgI₂ layer (allegedly corresponding to the detection layer) has row electrodes formed below it and column electrodes formed above it. This arrangement is described in detail in column 6, lines 16-55 of Scheiber. There is no disclosure in Scheiber of a detection layer made of a continuous layer of semiconducting material deposited in vapour phase on the electric charges reading panel that includes a monocrystalline silicon substrate integrating a plurality of electronic devices. FIG. 7 of Scheiber most clearly bears this out, showing schematically that in the “gamma-ray sensitive front-end,” the HgI₂ array (allegedly the detection layer made of a continuous layer of semiconducting material) is separate and distinct from the rest of the circuitry in which the plurality of electronic devices, such as the rows and columns of the multi-channel hybrid preamps or the other components of the “system console,” are disposed.

Claim 2

Claim 2 recites, *inter alia*, a process for making an X-radiation imagery device comprising (1) forming the electronic devices on the monocrystalline silicon substrate to produce the electric charges reading panel, and (2) vapour-phase depositing the semiconducting material on the electric charges reading panel so as to form the detection layer made of a continuous layer of the semiconducting material, thereby forming a matrix of detection pixels. These features are not disclosed in Scheiber. As explained above, FIG. 4 of Scheiber shows that the HgI₂ layer (allegedly corresponding to the detection layer) has row electrodes formed below it and column electrodes formed above it. This arrangement is described in detail in column 6, lines 16-55 of Scheiber. There is no disclosure in Scheiber of a detection layer made of a continuous layer of semiconducting material deposited in vapour phase on the electric charges reading panel that

includes a monocrystalline silicon substrate integrating a plurality of electronic devices. FIG. 7 of Scheiber most clearly bears this out, showing schematically that in the “gamma-ray sensitive front-end,” the HgI₂ array (allegedly the detection layer made of a continuous layer of semiconducting material) is separate and distinct from the rest of the circuitry in which the plurality of electronic devices, such as the rows and columns of the multi-channel hybrid preamps, or the other components of the “system console,” are disposed.

Claim 14

Claim 14 recites, *inter alia*, X-radiation imagery device comprising at least one detection matrix that comprises (1) an electric charges reading panel having an area equal to or larger than about 10 cm x 10 cm, said electric charges reading panel including a monocrystalline silicon substrate integrating a plurality of electronic devices, each electronic device including an amplifier, and (2) a detection layer made of a continuous layer of a semiconducting material deposited in vapour phase on the electric charges reading panel, the detection layer converting incident X photons into electric charges, each electronic device and a portion of the detection layer formed thereon forming a respective pixel of the detection matrix. These features are not disclosed in Scheiber. As explained above, FIG. 4 of Scheiber shows that the HgI₂ layer (allegedly corresponding to the detection layer) has row electrodes formed below it and column electrodes formed above it. This arrangement is described in detail in column 6, lines 16-55 of Scheiber. There is no disclosure in Scheiber of a detection layer made of a continuous layer of semiconducting material deposited in vapour phase on the electric charges reading panel that includes a monocrystalline silicon substrate integrating a plurality of electronic devices. FIG. 7 of Scheiber most clearly bears this out, showing schematically that in the “gamma-ray sensitive front-end,” the HgI₂ array (allegedly the detection layer made of a continuous layer of semiconducting material) is separate and distinct from the rest of the circuitry in which the plurality of electronic devices, such as the rows and columns of the multi-channel hybrid preamps, or the other components and amplifiers of the “system console,” are disposed.

Claim 16

Claim 16 recites, *inter alia*, a method for making an X-radiation imagery device comprising (1) forming electronic devices on a monocrystalline silicon substrate to produce an

electric charges reading panel, each of the electronic devices including an amplifier, and (2) vapour-phase depositing a semiconducting material on the electric charges reading panel so as to form a continuous detection layer made of the semiconducting material, thereby forming a matrix of detection pixels, each detection pixel including a corresponding electronic device and a portion of the detection layer formed thereon. These features are not disclosed in Scheiber. As explained above, FIG. 4 of Scheiber shows that the HgI_2 layer (allegedly corresponding to the detection layer) has row electrodes formed below it and column electrodes formed above it. This arrangement is described in detail in column 6, lines 16-55 of Scheiber. There is no disclosure in Scheiber of a detection layer made of a continuous layer of semiconducting material deposited in vapour phase on the electric charges reading panel that includes a monocrystalline silicon substrate integrating a plurality of electronic devices. FIG. 7 of Scheiber most clearly bears this out, showing schematically that in the “gamma-ray sensitive front-end,” the HgI_2 array (allegedly the detection layer made of a continuous layer of semiconducting material) is separate and distinct from the rest of the circuitry in which the plurality of electronic devices, such as the rows and columns of the multi-channel hybrid preamps, or the other components and amplifiers of the “system console,” are disposed.

Rejection of Claims 3, 12, 18 and 20 Under 35 U.S.C. 103(b)

Claims 3, 12, 18 and 20

Claims 3, 12, 18 and 20 are dependent claims which necessarily include the limitations of the base claims discussed above. The above-discussed missing features are not obvious, and a prima facie case of obviousness with regard to these features has not been established.

CLAIMS APPENDIX

1. X-radiation imagery device comprising at least one detection matrix, said detection matrix comprising:

an electric charges reading panel having an area equal to or larger than about 10 cm x 10 cm, said electric charges reading panel including a monocrystalline silicon substrate integrating a plurality of electronic devices; and a detection layer made of a continuous layer of semiconducting material deposited in vapour phase on the electric charges reading panel, the detection layer converting incident X photons into electric charges, each electronic device and a portion of the detection layer formed thereon forming a respective pixel of the detection matrix.

2. Process for making an X-radiation imagery device comprising at least one detection matrix, said detection matrix comprising (a) an electric charges reading panel having an area equal to or larger than about 10 cm x 10 cm, said electric charges reading panel including a monocrystalline silicon substrate integrating a plurality of electronic devices, and (b) a detection layer made of a semiconducting material converting incident X photons into electric charges, said process comprising:

forming the electronic devices on the monocrystalline silicon substrate to produce the electric charges reading panel; and

vapour-phase depositing the semiconducting material on the electric charges reading panel so as to form the detection layer made of a continuous layer of the semiconducting material, thereby forming a matrix of detection pixels, each detection pixel including a corresponding electronic device and a portion of the detection layer formed thereon.

3. Process according to claim 2, in which the evaporation properties of this semiconductor are such that the deposition can be done at a temperature lower than a temperature that damages the electronic devices.

4. Process according to claim 2, in which the semiconducting material used to make the matrix of detection pixels is CdTe, HgI₂ or PbI₂.

5. Process according to claim 2, in which electronic devices made using a process technology having a feature device size of 1.25 μm are used.
6. Process according to claim 2, in which electronic devices made using a process technology having a feature device size of 0.1 μm are used.
7. X-radiation imagery device according to claim 1, wherein the detection layer is deposited directly on the electronic devices of the electric charges reading panel in each pixel.
8. X-radiation imagery device according to claim 1, wherein the semiconducting material of the detection layer is crystalline silicon.
9. X-radiation imagery device according to claim 1, wherein each of said electronic devices comprising at least one of:
 - an amplifier;
 - a preamplifier;
 - a filter; or
 - a processing circuit.
10. X-radiation imagery device according to claim 9, wherein said processing circuit includes at least one of:
 - a reading circuit;
 - an integration circuit; or
 - a counting circuit.
12. The method in accordance with claim 2, wherein said vapour-phase depositing comprises:
 - controlling a temperature of the deposition so as not to damage the electronic devices of the electric charges reading panel made of monocrystalline silicon.
13. The method in accordance with claim 2, further comprising:
 - assembling more than one detection matrices to form a large area digital detector.

14. X-radiation imagery device comprising at least one detection matrix, said detection matrix comprising:

an electric charges reading panel having an area equal to or larger than about 10 cm x 10 cm, said electric charges reading panel including a monocrystalline silicon substrate integrating a plurality of electronic devices, each electronic device including an amplifier; and

a detection layer made of a continuous layer of a semiconducting material deposited in vapour phase on the electric charges reading panel, the detection layer converting incident X photons into electric charges, each electronic device and a portion of the detection layer formed thereon forming a respective pixel of the detection matrix.

15. X-radiation imagery device according to claim 14, wherein each of said electronic devices further comprising at least one of:

a preamplifier;

a filter; or

a processing circuit.

16. Method for making an X-radiation imagery device comprising at least one detection matrix, said detection matrix comprising an electric charges reading panel having an area equal to or larger than about 10 cm x 10 cm, said electric charged reading panel including (a) a monocrystalline silicon substrate integrating a plurality of electronic devices, and (b) a detection layer made of a semiconducting material converting incident X photons into electric charges, said method comprising:

forming the electronic devices on the monocrystalline silicon substrate to produce the electric charges reading panel, each of the electronic devices including an amplifier; and

vapour-phase depositing the semiconducting material on the electric charges reading panel so as to form a continuous detection layer made of the semiconducting material, thereby forming a matrix of detection pixels, each detection pixel including a corresponding electronic device and a portion of the detection layer formed thereon.

17. X-radiation imagery device according to claim 1, wherein said device has a detection area of about one or more dm^2 .
18. Process according to claim 2, wherein said monocrystalline silicon substrate is obtained from a monocrystalline silicon wafer having a diameter of about 10 cm to about 30 cm.
19. X-radiation imagery device according to claim 14, wherein said device has a detection area of about a few dm^2 .
20. Process according to claim 16, wherein said monocrystalline silicon substrate is obtained from a monocrystalline silicon wafer having a diameter of about 10 cm to about 30 cm.

EVIDENCE APPENDIX

None.

RELATED PROCEEDINGS APPENDIX

None.

Please charge any additional required fee or credit any overpayment not otherwise paid
or credited to our deposit account No. 50-1698.

Respectfully submitted,

THELEN REID BROWN RAYSMAN & STEINER LLP

Dated: 10/16/2007



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